



A-688A.ST25.txt
SEQUENCE LISTING

<110> FEIGE, ULRICH
KOHNO, TADAHIKO
LACEY, DAVID
BOONE, THOMAS CHARLES

<120> ADHESION ANTAGONISTS (as amended)

<130> A-688A

<140> US 09/840,277

<141> 2001-04-23

<150> US 60/198,919

<151> 2000-04-21

<150> US 60/201,394

<151> 2000-05-03

<160> 135

<170> PatentIn version 3.1

<210> 1

<211> 684

<212> DNA

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<222> (1)..(684)

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A-688A.ST25.txt

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 ggg gga ccg tca gtc ttc ctc ttc ccc cca aaa ccc aag gac acc ctc 96
 Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
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 atg atc tcc ccg acc cct gag gtc aca tgc gtg gtg gtg gac gtg agc 144
 Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser
 35 40 45
 cac gaa gac cct gag gtc aag ttc aac tgg tac gtg gac ggc gtg gag 192
 His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
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 gtg cat aat gcc aag aca aag ccg ccg gag gag cag tac aac agc acg 240
 Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr
 65 70 75 80
 tac cgt gtg gtc agc gtc ctc acc gtc ctg cac cag gac tgg ctg aat 288
 Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn
 85 90 95
 ggc aag gag tac aag tgc aag gtc tcc aac aaa gcc ctc cca gcc ccc 336
 Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro
 100 105 110
 atc gag aaa acc atc tcc aaa gcc aaa ggg cag ccc cga gaa cca cag 384
 Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
 115 120 125
 gtg tac acc ctg ccc cca tcc ccg gat gag ctg acc aag aac cag gtc 432
 Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val
 130 135 140
 agc ctg acc tgc ctg gtc aaa ggc ttc tat ccc agc gac atc gcc gtg 480
 Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
 145 150 155 160
 gag tgg gag agc aat ggg cag ccg gag aac aac tac aag acc acg cct 528
 Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
 165 170 175
 ccc gtg ctg gac tcc gac ggc tcc ttc ttc ctc tac agc aag ctc acc 576
 Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
 180 185 190
 gtg gac aag agc agg tgg cag cag ggg aac gtc ttc tca tgc tcc gtg 624
 Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
 195 200 205
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Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
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Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser
 35 40 45

His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
 50 55 60

Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr
 65 70 75 80

Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn
 85 90 95

Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro
 100 105 110

Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
 115 120 125

Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val
 130 135 140

Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
 145 150 155 160

Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
 165 170 175

Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
 180 185 190

Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
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Ser Pro Gly Lys
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Gly Pro Asn Gly Gly
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Thr

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<223> RGD, NGR derivative peptide

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<222> (2, 5 and)..(7)

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<223> RGD, NGR derivative peptide

<220>

<221> misc_feature

<222> (2, 3, 7 and)..(8)

<223> Xaa is any amino acid

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Cys Xaa Xaa Arg Leu Asp Xaa Xaa Cys
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<223> RGD, NGR derivative peptide

<220>

<221> misc_feature

<222> (2 and)..(3)

<223> Xaa is any amino acid

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Cys Xaa Xaa Arg Gly Asp Cys
1 5

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<220>

<221> misc_feature

<222> (1, 2, 3, 7, 8 and)..(9)

<223> Xaa is any amino acid with Xaa at 1, 3, 7 and 9 capable of forming a bridge.

<400> 13

Xaa Xaa Xaa Arg Gly Asp Xaa Xaa Xaa
1 5

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<221> misc_feature

<222> (2)..(8)

<223> Xaa is 1 to 5 amino acids.

<400> 14

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1 5

<210> 15

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<221> misc_feature

<222> (1 and)..(8)

<223> xaa is an independently selected amino acid.

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<221> misc_feature

<222> (2 and)..(7)

<223> xaa equals 0 to 4 amino acids, each which is independently select
ed.

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<222> (4)..(4)

<223> xaa is selected from the group consisting of glycine and leucine.

<220>

<221> misc_feature

<222> (5)..(5)

<223> xaa is selected from the group consisting of tryptophan and leucine.

<400> 15

Xaa Xaa Asp Asp Xaa Xaa Xaa Xaa
1 5

<210> 16

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<222> (1 and)..(10)

<223> xaa is any amino acid.

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<222> (2 and)..(9)

<223> xaa equals 0 to 3 amino acids.

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<222> (3)..(3)

<223> xaa is selected from the group consisting of tryptophan and proline.

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<222> (6)..(6)

<223> xaa is selected from the group consisting of glycine and leucine.

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<222> (7)..(7)

<223> Xaa is selected from the group consisting of tryptophan and leucine.

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<222> (8)..(8)

<223> Xaa is selected from the group consisting of leucine, tryptophan, and methionine.

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Xaa Xaa Xaa Asp Asp Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 17

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<222> (3, 5, 6, 13)..(15)

<223> Xaa is any naturally occurring amino acid residue.

<400> 17

Arg Lys Xaa Asn Xaa Xaa Trp Thr Trp Val Gly Thr Xaa Lys Xaa Leu
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Thr Glu Glu

<210> 18

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<222> (2, 3, 4, 7)..(15)

<223> Xaa is any naturally occurring amino acid residue

<400> 18

Cys Xaa Xaa Xaa Tyr Thr Xaa Leu Val Ala Ile Gln Asn Lys Xaa Glu
1 5 10 15

<210> 19

<211> 19

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<222> (3, 4, 5, 6, 8, 13, 15)..(18)

<223> Xaa is any naturally occurring amino acid residue.

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Arg Lys Xaa Xaa Xaa Xaa Trp Xaa Trp Val Gly Thr Xaa Lys Xaa Leu
1 5 10 15

Thr Xaa Glu

<210> 20

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<222> (2, 5, 6, 7, 12, 13)..(14)

<223> Xaa is any naturally occurring amino acid residue.

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<222> (1, 3, 6, 9, 12)..(13)

<223> Xaa is any naturally occurring amino acid residue.

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Xaa Lys Xaa Lys Thr Xaa Glu Ala Xaa Asn Trp Xaa Xaa
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Cys Leu Cys Arg Gly Asp Cys Ile Cys
1 5

<210> 23

<211> 8

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Cys Trp Asp Asp Gly Trp Leu Cys
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Cys Trp Asp Asp Leu Trp Trp Leu Cys
1 5

<210> 25

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Cys Trp Asp Asp Gly Leu Met Cys
1 5

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<211> 8

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<400> 26

Cys Trp Asp Asp Gly Trp Met Cys
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Cys Ser Trp Asp Asp Gly Trp Leu Cys
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Arg Gly Asp
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Asp Leu Xaa Xaa Leu
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Arg Thr Asp Leu Asp Ser Leu Arg Thr
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<210> 44

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Ser Ser Asp Leu His Ala Leu Lys Lys Arg Tyr Gly
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Ser Ala Leu Thr Thr Thr Leu Val Ala Thr Arg
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Ala Met Leu Gly Leu Leu Ser Thr Ile His Ser Ser Ser Arg
20 25 30

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Ala Thr Arg Ile Gln Asp Leu Leu Ile Ala Ser Arg Pro Ser Arg
20 25 30

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Ser Ser Thr Gly Trp Val Asp Leu Leu Gly Ala Leu Gln Arg Ala Ala
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Asp Ala Thr Arg Thr Ser Ile Pro Pro Ser Leu Gln Asn Ser Arg
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Asp Val Tyr Thr Lys Lys Glu Leu Ile Glu Cys Ala Arg Arg Val Ser
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Glu Lys

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Arg Gly Asp Gly Xaa
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Cys Ala Arg Arg Leu Asp Ala Pro Cys
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Cys Pro Ser Arg Leu Asp Ser Pro Cys
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1 5

<210> 64

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Arg Gly Asp Leu Ala Ala Leu Ser Ala Pro Pro Val
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<210> 65

<211> 12

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<223> Selectin antagonist peptide

<400> 65

Asp Ile Thr Trp Asp Gln Leu Trp Asp Leu Met Lys
1 5 10

<210> 66

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<400> 66

Asp Ile Thr Trp Asp Glu Leu Trp Lys Ile Met Asn
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<210> 67

<211> 12

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<210> 68

<211> 12

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<400> 68

Gln Ile Thr Trp Ala Gln Leu Trp Asn Met Met Lys
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<210> 69

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Asp Met Thr Trp His Asp Leu Trp Thr Leu Met Ser
1 5 10

<210> 70

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<400> 70

Asp Tyr Ser Trp His Asp Leu Trp Glu Met Met Ser
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<210> 71

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Glu Ile Thr Trp Asp Gln Leu Trp Glu Val Met Asn
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His Val Ser Trp Glu Gln Leu Trp Asp Ile Met Asn
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Arg Asn Met Ser Trp Leu Glu Leu Trp Glu His Met Lys
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Ala Glu Trp Thr Trp Asp Gln Leu Trp His Val Met Asn Pro Ala Glu
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Ser Gln

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His Arg Ala Glu Trp Leu Ala Leu Trp Glu Gln Met Ser Pro
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Lys Lys Glu Asp Trp Leu Ala Leu Trp Arg Ile Met Ser Val
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Ile Thr Trp Asp Gln Leu Trp Asp Leu Met Lys
1 5 10

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<400> 79

Asp Ile Thr Trp Asp Gln Leu Trp Asp Leu Met Lys
1 5 10

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Asp Ile Thr Trp Asp Gln Leu Trp Asp Leu Met Lys
1 5 10

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Asp Ile Thr Trp Asp Gln Leu Trp Asp Leu Met Lys
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<211> 17

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<400> 83

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Asp

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Arg Lys Asn Asn Lys Thr Trp Thr Trp Val Gly Thr Lys Lys Ala Leu
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Thr Asn Glu

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<400> 86

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Ala Glu Asn Trp Ala Asp Gly Glu Pro Asn Asn Lys Xaa Asn Xaa Glu
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Asp

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<223> Vinculin binding peptide

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Ala Thr Arg Ile Gln Asp Leu Leu Ile Ala Ser Arg Pro Ser Arg
 20 25 30

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Ser Ser Thr Gly Trp Val Asp Leu Leu Gly Ala Leu Gln Arg Ala Ala
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<210> 98

<211> 44

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ctc Leu	atg Met	atc Ile	tcc Ser 35	cgg Arg	acc Thr	cct Pro	gag Glu	gtc Val 40	aca Thr	tgc Cys	gtg Val	gtg Val	gtg Val 45	gac Asp	gtg Val	144
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ccc Pro	atc Ile	gag Glu	aaa Lys 115	acc Thr	atc Ile	tcc Ser	aaa Lys	gcc Ala 120	aaa Lys	ggg Gly	cag Gln	ccc Pro	cga Arg 125	gaa Glu	cca Pro	384
cag Gln	gtg Val	tac Tyr 130	acc Thr	ctg Leu	ccc Pro	cca Pro	tcc Ser 135	cgg Arg	gat Asp	gag Glu	ctg Leu	acc Thr 140	aag Lys	aac Asn	cag Gln	432

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gtg	gag	tgg	gag	agc	aat	ggg	cag	ccg	gag	aac	aac	tac	aag	acc	acg	528
Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	
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Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Leu	Tyr	Ser	Lys	Leu		
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Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	
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Leu	Ser	Pro	Gly	Lys	Gly	Gly	Gly	Gly	Gly	Glu	Cys	Glu	Ser	Gly	Pro	
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Cys	Cys	Arg	Asn	Cys	Lys	Phe	Leu	Lys	Glu	Gly	Thr	Ile	Cys	Lys	Arg	
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gct	aga	ggg	gac	gac	atg	gac	gac	tac	tgt	aac	ggg	aag	acc	tgt	gac	816
Ala	Arg	Gly	Asp	Asp	Met	Asp	Asp	Tyr	Cys	Asn	Gly	Lys	Thr	Cys	Asp	
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tgc	ccg	aga	aac	cca	cac	aag	ggg	cca	gct	act	taatggatcc					859
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<223> NdeI site

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<223> BamHI site

<400> 109

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20 25 30

Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser
35 40 45

His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
50 55 60

Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr
65 70 75 80

Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn
85 90 95

Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro
100 105 110

Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
115 120 125

Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val
130 135 140

Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
145 150 155 160

Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
165 170 175

Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
180 185 190

Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
195 200 205

Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
210 215 220

Ser Pro Gly Lys Gly Gly Gly Gly Gly Glu Cys Glu Ser Gly Pro Cys
225 230 235 240

Cys Arg Asn Cys Lys Phe Leu Lys Glu Gly Thr Ile Cys Lys Arg Ala
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Pro Arg Asn Pro His Lys Gly Pro Ala Thr
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<223> clai site

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<223> SacII sticky end

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ctcctgagta ggacaaatcc gccgggagcg gatttgaacg ttgcgaagca acggcccgga 180

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gcttttagaaa tactttggca gcggtttgtt gtattgagtt tcatttgcg c attggttaaa 420

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cagacaagat	ggggatgggg	cagtcaggcg	ttggtgcttt	atttaatggc	atcaatgcat	300
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gcccttcaat	cgccagagaa	tctacgagat	gtatgaagcg	gttagtatgc	agccgtcact	420
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gagttgttcc	gttgtgggga	aagttatcgc	tagtcagtgg	cctgaagaga	cgtttggtcg	840
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<210> 116

<211> 16

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<211> 26

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<213> Artificial Sequence

<220>

<223> Laminin related peptide

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Met Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg
1 5 10 15

Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg
20 25

<210> 118

<211> 26

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<213> Artificial Sequence

<220>

<223> Laminin related peptide

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Trp Met Leu Ala Arg Gly Gly Gly Gly Gly
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<211> 25

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Asp Ser Gly Arg Gly Gly Gly Gly Gly
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<210> 120

<211> 20

<212> PRT

<213> Artificial Sequence

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1 5 10 15

Gly Gly Gly Gly

<210> 121
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<220>

<223> Encoding Laminin related peptide, for PCR reaction to yield in-frame fusion to Fc

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<210> 123
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<223> Encoding Laminin related peptide, for PCR reaction to yield in-frame fusion to Fc

<400> 123
 gaataacata tgtacatcgg ttctcggttat attggctccc gctacattgg tagccgttat 60
 atcggctctc gctatattgg tagccgcgac aaaactcaca catgtccacc t 111

<210> 124
 <211> 93

<212> DNA

<213> Artificial Sequence

<220>

<223> Encoding Laminin related peptide; for PCR reaction to yield in-frame fusion to Fc

<400> 124
 gaataacata tgatcccgtg caacaacaaa ggtgctcact ctgttggtct gatgtggtgg 60
 atgctggctc gtggaggagg cgggggggac aaa 93

<210> 125

<211> 90

<212> DNA

<213> Artificial Sequence

<220>

<223> Encoding Laminin related peptide, for PCR reaction to yield in-frame fusion to Fc

<400> 125
 gaataacata tgtacatcgg ttctcgtcgt gaagacgttg aaatcctgga cgttccggac 60
 tctggtcgtg gtggaggcgg tggggacaaa 90

<210> 126

<211> 75

<212> DNA

<213> Artificial Sequence

<220>

<223> Encoding Laminin related peptide, for PCR reaction to yield in-frame fusion to Fc

<400> 126
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 ggcggtgggg acaaa 75

<210> 127

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Encoding Laminin related peptide, for PCR reaction to yield in-frame fusion to Fc

<400> 127

gttattgctc agcggtaggca

20

<210> 128

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Laminin related peptide

<400> 128

Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg
1 5 10

<210> 129

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Laminin related peptide

<400> 129

Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg
1 5 10 15

<210> 130

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Laminin related peptide

<400> 130

Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg Tyr
1 5 10 15

Ile Gly Ser Arg
20

<210> 131

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Laminin related peptide

<400> 131

Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg Tyr
1 5 10 15

Ile Gly Ser Arg Tyr Ile Gly Ser Arg
20 25

<210> 132

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Laminin related peptide

<400> 132

Ile Pro Cys Asn Asn Lys Gly Ala His Ser Val Gly Leu Met Trp Trp
1 5 10 15

Met Leu Ala Arg
20

<210> 133

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Laminin related peptide

<400> 133

Tyr Ile Gly Ser Arg Arg Glu Asp Val Glu Ile Leu Asp Val Pro Asp
1 5 10 15

Ser Gly Arg

<210> 134

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Laminin related peptide

<400> 134

Arg Gly Asp Arg Gly Asp Tyr Ile Gly Ser Arg Arg Gly Asp
1 5 10

<210> 135

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Laminin related peptide

<400> 135

Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg Tyr
1 5 10 15

Ile Gly Ser Arg Tyr Ile Gly Ser Arg
20 25